

over 8921

16 AUG 29 2018

9 oct



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

647.3704

Job Sheet 182597



Part No: 647.3704

Job Qty: 1 ea

Part Name: 204,205,212,214 Cable Cutter System, High



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 8/28/18

Job Tracking No:

Due Date: 10/9/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 647.3700 REV.A IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM IPP REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM IPP REV:C AS PER REV NC3 15.03.18 JLM VERIFIED BY:DD IPP REV:D 18.01.19 AS PER DWG REV.A DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Lead Time	Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier			
90	Start up Operation	1 Ea	10/9/18	10/9/18	0.00	0.00	Start Up Stores/Pkg-2			SEP 17 2018
110	Packaging	1 pcs	10/9/18	10/9/18	0.00	0.00	Packaging1-1			SEP 17 2018
120	QC	1 pcs	10/9/18	10/9/18	0.00	0.00	QC4			OCT 19 2018
125	DC	1 pcs	10/9/18	10/9/18	0.00	0.00	DC			DAS 58
130	Packaging	1 pcs	10/9/18	10/9/18	0.00	0.00	Packaging3-1			OCT 19 2018
140	QC21-FG	1 Ea	10/9/18	10/9/18	0.00	0.00	QC21			DAS 21

Part Op 125 - Photocopy bluefile & type labels per PPP 647.3704

Descriptions: 130 - Identify and pack for shipping as per PPP 647.3704

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
600.1012	Sealant PR1425B2 (#654 sem)	1 pcs (1 ea)	90-Start up Operation	5075327
601.2045	RTV (LOCTITE 598)	1 Ea (1 ea)	90-Start up Operation	5084065
601.3073	Connector p/n 082-4440	1 Ea (1 ea)	90-Start up Operation	F163232
601.3083	Adhesive Rubber Seal	1 Ea (1 ea)	90-Start up Operation	5054871
647.3802	212 Upper Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	F124717
647.3804	204,205,212,214,412 Lower Cutter Assembly High	1 Ea (1 ea)	90-Start up Operation	5116672
647.3903	Deflector Assembly	1 Ea (1 ea)	90-Start up Operation	511938
647.4010	Wiper Deflector RH	1 Ea (1 ea)	90-Start up Operation	F158472
647.4011	Wiper Deflector LH	1 Ea (1 ea)	90-Start up Operation	3062598
647.4110	Doubler	1 Ea (1 ea)	90-Start up Operation	5004312
647.4111	Doubler	1 Ea (1 ea)	90-Start up Operation	F161210
647.4112	Clip	1 Ea (1 ea)	90-Start up Operation	F162469
647.4113	Clip	1 Ea (1 ea)	90-Start up Operation	F163487
647.4114	Shim	2 Ea (2 ea)	90-Start up Operation	5026930
647.4115	Shim	2 Ea (2 ea)	90-Start up Operation	5026933
647.4116	Shim	1 Ea (1 ea)	90-Start up Operation	5058999
647.4210	Bracket LH	1 Ea (1 ea)	90-Start up Operation	F161755
647.4211	Bracket RH	1 Ea (1 ea)	90-Start up Operation	F161784
647.4212	Plate	1 Ea (1 ea)	90-Start up Operation	F150884
647.4310	LH Lower Strut	1 Ea (1 ea)	90-Start up Operation	F158229
647.4311	RH Lower Strut	1 Ea (1 ea)	90-Start up Operation	F161672

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____																	

Root Cause			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	
Design ☐	Operator ☐	Bending ☐	
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	
Equip/Tooling ☐	Supplier ☐	Cracks ☐	
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	
Material ☐	Use for Testing ☐	Cuffs ☐	
Internal Transport ☐	Poor Information ☐	Crushing ☐	
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	
Past Expiry Date ☐	Manufacturing Process ☐		
Misidentified ☐	Past Due ☐	OTHER : ☐	

Part: 647.3704
 Job No: 182597
 Serial No/Batch: S110741
 Revision: A
 Inspector:
 Exp Date:
 Instructions: FAA STC SR02289 LA 17/02/02 TASTIC LOA RDIMS-6068939 10/0



Container No: S110741



DART Aerospace Ltd.
 1270 Aberdeen Street
 Hawkebury, ON K6A 1K7
 CANADA
 TEL: 1 613 632-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

647.4312 LH Upper Strut
 647.4313 RH Upper Strut
 647.4410 Rail
 AN3-11A Bolt
 AN3-4A Bolt
 AN3C10A Bolt
 CCR264SS-3-03 Cherry Rivet
 CCR264SS3-04 Rivet
 CR3212-4-2 Cherry Rivet
 CR3212-4-3 Cherry Rivet
 CR3212-4-4.04 Cherry Rivet
 CR3213-4-2 Cherry Rivet
 CR3213-4-3 Rivet, Cherry
 CR3213-4-4 Rivet, Cherry
 CR3213-4-5 05 Rivet
 CR3213-4-8 Rivet
 MS21042-08 Use Ms21042L08
 MS21042-3 Nut
 MS21047-3 Nut Plate
 MS21047L06 Nut Plate
 MS21047L08 Nut Plate
 MS21071L3 Anchor Nut
 MS24694-C53 Screw
 MS24694-S49 Screw
 MS27039-08-08 Screw
 MS27039-08-11 Screw
 MS27039-1-07 Screw
 MS27039-1-09 Screw
 MS27039-1-10 Screw
 NAS1149F0332P Washer
 NAS1149FN832P Washer

1 Ea (1 ea) 90-Start up Operation
 1 Ea (1 ea) 90-Start up Operation
 1 Ea (1 ea) 90-Start up Operation
 8 Ea (8 ea) 90-Start up Operation
 3 Ea (3 ea) 90-Start up Operation
 2 Ea (2 ea) 90-Start up Operation
 16 Ea (16 ea) 90-Start up Operation
 12 Ea (12 ea) 90-Start up Operation
 11 Ea (11 ea) 90-Start up Operation
 17 Ea (17 ea) 90-Start up Operation
 7 Ea (7 ea) 90-Start up Operation
 31 Ea (31 ea) 90-Start up Operation
 24 Ea (24 ea) 90-Start up Operation
 16 Ea (16 ea) 90-Start up Operation
 28 Ea (28 ea) 90-Start up Operation
 4 Ea (4 ea) 90-Start up Operation
 18 Ea (18 ea) 90-Start up Operation
 79 Ea (79 ea) 90-Start up Operation
 4 Ea (4 ea) 90-Start up Operation
 6 Ea (6 ea) 90-Start up Operation
 6 Ea (6 ea) 90-Start up Operation
 4 pcs (4 ea) 90-Start up Operation
 8 Ea (8 ea) 90-Start up Operation
 1 Ea (1 ea) 90-Start up Operation
 16 Ea (16 ea) 90-Start up Operation
 2 Ea (2 ea) 90-Start up Operation
 12 Ea (12 ea) 90-Start up Operation
 14 Ea (14 ea) 90-Start up Operation
 42 Ea (42 ea) 90-Start up Operation
 157 Ea (157 ea) 90-Start up Operation
 34 Ea (34 ea) 90-Start up Operation

P162442
 5020532
 F155358
 5078165
 5060063
 5019323
 5082912
 5044217
 5102069
 5053949
 5045669
 5019424
 5098038
 5049830
 5019315
 FM136983-5
 5044234
 5084880X5 5108577X74
 5020620
 FM138408
 5016504
 5055950
 FM137951-7
 FM129102
 5053952
 FM138936-10
 5079112
 5017101
 5071834
 5102666
 5100408

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	600.1012	1	16	0
	601.2045	1	22	0
	601.3073	1	3	0
	601.3083	1	3	0
	647.3802	1	2	0
	647.3804	1	1	0
	647.3903	1	0	0
	647.4010	1	10	0
	647.4011	1	8	0
	647.4110	1	4	0
	647.4111	1	3	0
	647.4112	1	12	0
	647.4113	1	6	0
	647.4114	2	9	0
	647.4115	2	9	0
	647.4116	1	17	0
	647.4210	1	9	0
	647.4211	1	9	0
	647.4212	1	4	0
	647.4310	1	12	0
	647.4311	1	2	0
	647.4312	1	5	0
	647.4313	1	5	0
	647.4410	1	4	0
	AN3-11A	8	240	0
	AN3-4A	3	161	0
	AN3C10A	2	17	0
	CCR264SS-3-03	16	672	0
	CCR264SS3-04	12	70	0
	CR3212-4-2	11	119	0
	CR3212-4-3	17	141	0
	CR3212-4-4	7	290	0
	CR3213-4-2	31	137	0

005446
 503182597

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

CR3213-4-3	24	336	0
CR3213-4-4	16	719	0
CR3213-4-5	28	180	0
CR3213-4-8	4	124	0
MS21042-08	18	1	0
MS21042-3	79	84	0
MS21047-3	4	544	0
MS21047L06	6	23	0
MS21047L08	6	15	0
MS21071L3	4	57	0
MS24694-C53	8	51	0
MS24694-S49	1	155	0
MS27039-08-08	16	80	0
MS27039-08-11	2	1,295	0
MS27039-1-07	12	49	0
MS27039-1-09	14	124	0
MS27039-1-10	42	332	0
NAS1149F0332P	157	1,715	0
NAS1149FN832P	34	2,302	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



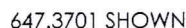
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

6 VENDOR: MCMaster-CARR
VENDOR P/N: 86715K27
60A DUROMETER

[illegible]

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION- PRI		N/C
N/C	INITIAL RELEASE	09-29-09	P. BRAYC
A	INCORPORATED ECN 07728, 04881, 04845, & 05903	12-15-17	P. BRAYC

31	31	13	42	601.1039	CHERRY RIVET	CR3213-4-2			
16	16	16	41	601.2207	NUTPLATE RIVET	CCR2645S-3-03			
12	12	12	40	601.2491	NUTPLATE RIVET	CCR2645S-3-04			
7	7	4	39	601.1066	CHERRY RIVET	CR3212-4-4			
17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3			
11	11	12	37	601.1604	CHERRY RIVET	CR3212-4-2			
			36		DELETED				
2	2	2	2	35	601.1874	BOLT	ANOC10A		
8	8	8	8	34	601.2826	BOLT	ANB-11A		
3	3	3	3	33	601.2823	BOLT	ANB-4A		
1	1	1		32	601.3073		082-4440		
8	8	8	8	31	601.2419	SCREW	MS24694C-53		
1	1	1	1	30	601.3070	SCREW	MS24694-549		
2	2	2	2	29	601.2893	SCREW	MS27039-0811		
14	14	14	14	28	601.3069	SCREW	MS27039-1-09		
16	16	16	16	27	601.2263	SCREW	MS27039-0808		
42	42	42	42	26	601.1365	SCREW	MS27039-1-10		
12	12	12	12	25	601.2198	SCREW	MS27039-1-07		
157	157	157	157	24	601.1607	WASHER	NAS1149F0332P		
34	34	34	34	23	601.2764	WASHER	NAS1149FN832P		
1	1	1	1	22	647.4313	RH UPPER STRUT			
1	1	1	1	21	647.4312	LH UPPER STRUT			
1	1	1	1	20	647.4310	LH LOWER STRUT			
1	1	1	1	19	647.4311	RH LOWER STRUT			
1	1			18	647.4212				
1	1	1	1	17	647.4211	BRACKET RH			
1	1	1	1	16	647.4210	BRACKET LH			
1	1	1	1	15	647.4116	SHIM			
2	2	2	2	14	647.4115	SHIM			
2	2	2	2	13	647.4114	SHIM			
1	1	1	1	12	647.4113	CLIP			
1	1	1	1	11	647.4112	CLIP			
1	1	1	1	10	647.4111	DOUBLER			
1	1	1	1	9	647.4110	DOUBLER			
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH			
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH			
1	1	1	1	6	647.3903	DEFLECTOR ASSEMBLY			
1	1	1	1	5	647.4410	RAIL			
1	1	1		4	647.3804	LOWER CUTTER ASSY HIGH			
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW			
1	1			2	647.3802	212 UPPER CUTTER ASSY			
		1	1	1	647.3801	412 UPPER CUTTER ASSY			
					647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH			
					647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW			
					647.3702	412 CABLE CUTTERS KIT HIGH			
					647.3701	412 CABLE CUTTERS KIT LOW			
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	
QTY				PARTS LIST					
NEXT ASSY (S)				ORIGINAL DATE 09-29-69 DRAWN BY J. JACKSON CHECKED D. BARBER DRAWING APPROVAL B. BRADY 09-29-69 CONTRACT NO.				3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081-8347 (760)724-5300 DART AEROSPACE AERIAL INDUSTRIES, INC. UDS DART AEROSPACE	
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS INCHES 1/16 1/32 1/64 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 12 14 16 18 20 22 24 26 28 30 32 36 40 45 50 56 63 72 80 90 100 112 125 140 160 180 200 224 250 280 315 360 400 450 500 560 630 720 800 900 1000 1120 1250 1400 1600 1800 2000 2240 2500 2800 3150 3600 4000 4500 5000 5600 6300 7200 8000 9000 10000 11200 12500 14000 16000 18000 20000 22400 25000 28000 31500 36000 40000 45000 50000 56000 63000 72000 80000 90000 100000 112000 125000 140000 160000 180000 200000 224000 250000 280000 315000 360000 400000 450000 500000 560000 630000 720000 800000 900000 1000000 1120000 1250000 1400000 1600000 1800000 2000000 2240000 2500000 2800000 3150000 3600000 4000000 4500000 5000000 5600000 6300000 7200000 8000000 9000000 10000000 11200000 12500000 14000000 16000000 18000000 20000000 22400000 25000000 28000000 31500000 36000000 40000000 45000000 50000000 56000000 63000000 72000000 80000000 90000000 100000000 112000000 125000000 140000000 160000000 180000000 200000000 224000000 250000000 280000000 315000000 360000000 400000000 450000000 500000000 560000000 630000000 720000000 800000000 900000000 1000000000 1120000000 1250000000 1400000000 1600000000 1800000000 2000000000 2240000000 2500000000 2800000000 3150000000 3600000000 4000000000 4500000000 5000000000 5600000000 6300000000 7200000000 8000000000 9000000000 10000000000 11200000000 12500000000 14000000000 16000000000 18000000000 20000000000 22400000000 25000000000 28000000000 31500000000 36000000000 40000000000 45000000000 50000000000 56000000000 63000000000 72000000000 80000000000 90000000000 100000000000 112000000000 125000000000 140000000000 160000000000 180000000000 200000000000 224000000000 250000000000 280000000000 315000000000 360000000000 400000000000 450000000000 500000000000 560000000000 630000000000 720000000000 800000000000 900000000000 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1800000000000000 2000000000000000 2240000000000000 2500000000000000 2800000000000000 3150000000000000 3600000000000000 4000000000000000 4500000000000000 5000000000000000 5600000000000000 6300000000000000 7200000000000000 8000000000000000 9000000000000000 10000000000000000 11200000000000000 12500000000000000 14000000000000000 16000000000000000 18000000000000000 20000000000000000 22400000000000000 25000000000000000 28000000000000000 31500000000000000 36000000000000000 40000000000000000 45000000000000000 50000000000000000 56000000000000000 63000000000000000 72000000000000000 80000000000000000 90000000000000000 100000000000000000 112000000000000000 125000000000000000 140000000000000000 160000000000000000 180000000000000000 200000000000000000 224000000000000000 250000000000000000 280000000000000000 315000000000000000 360000000000000000 400000000000000000 450000000000000000 500000000000000000 560000000000000000 630000000000000000 720000000000000000 800000000000000000 900000000000000000 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